

Displays Range Brochure



...Sony Oisplays

It's your decision

As an individual you form your own opinions and make your own decisions, so selecting the right display shouldn't be any different. You need to find the best, because your monitor will probably last longer than your current computer, affecting your enjoyment of work and your productivity for years. That's why Sony has created a range of displays that gives you the freedom to choose, by work environment or budget, by inch-size or application.

The Sony advantage

Sony's monitors set the industry standards, for technology, innovative design features and functions, range and aesthetics. Just set your criteria and select from the best. At home or office, CRT or LCD, Sony lets you choose. You're at liberty to match a monitor to your specific requirements in every detail; it's a matter of personality.

SONY





a series









Easy set-up and adjustment





Design gets the green light

In a small office or home workspace, your monitor must be stylish. The 17" and 19" A Series are just that, with a subtle green casing designed to complement any interior. But the beauty's more than skin-deep. The A Series features FD Trinitron technology, to minimise distortion and ambient light reflections and a high-contrast screen for brilliant colour saturation. There are multimedia options, thanks to plug-and-play USB connectivity and a DisplayMouse™ control for easy display set-up or adjustment.







Series





Affordable quality



Intuitive DisplayMouse control



Sound economics and vision quality

The entry-level E Series is about value, giving you the benefits of FD Trinitron – minimal glare and distortion, excellent image quality and colour reproduction – for less. There's a choice of four different screen sizes, from 15" to 21", so you can pick the one that best suits your requirements and all of these monitors comply with the latest TCO'99 ergonomic and environmental regulations.



















Stunning images



Intuitive DisplayMouse



Durability and performance in the office

Higher productivity and lower maintenance is the combination for the corporate environment. Thanks to FD Trinitron and excellent lens technologies, these 17", 19" and 21" models all feature a visually flat screen and extra-sharp focus performance, minimising eyestrain. If you need a viewing area that's bigger and better, look to the G Series. Built to last and elegant, with TCO'99 compliance, these displays will complement any office for years to come.















The definitive image

When your professional reputation depends upon the images you see – and create – on screen, you need the best. The 21" F500 adds to the excellence of its FD Trinitron CRT with Sony's focus technologies and an industry-finest Aperture Grille pitch of just 0.22 mm, for the sharpest images and detail. But for the bigger picture, look to the FW900, Sony's 24" FD Trinitron wide-screen monitor. Its 16:10 aspect ratio means that 2 full-size A4 pages can be viewed at the same time, along with your toolbars and palettes – it's a designer's dream.



series





FW900 24" display



Professional set-up



USB connectivity



C C Series









Double pivot ergostand





Variable format positioning







Certainly not space invaders

These ultra-thin and lightweight displays combine great looks with functionality and total flexibility. With a variety of viewing angles – the new N50PS offers landscape or portrait options – screen-sizes from 15" to 18.1" and compatibility with a wide range of PC signals, these

models give you choice and first-rate images. Digital Smoothing and auto-adjust functions for optimum picture performance are included, while the flat screens are reflection-free and rich in contrast and brightness. They'll catch your eye for all the right reasons.



| MULTISCAN [| DISPLAYS | A220 HMD-A220 | A420 HMD-A420 |
|---|--|---|---|
| RT TUBE SPEC | CRT size | 17" | 19" |
| | FD Trinitron | - | |
| | AG pitch | 0.24-0.25 mm | 0.24-0.25 mm |
| | Focus lens | DQL, MALS | DQL, MALS & EFEAL, L-SAGIC |
| | Visual area (H x V) | 326 x 243 mm | 365 X 274 mm |
| DISPLAY FEATURES | Horizontal frequency | 30-70 kHz | 30-96 kHz |
| | Vertical frequency | 48-120 Hz | 48-120 Hz |
| | Maximum refresh rates | 640 x 480/120 Hz 800 x 600/113 Hz 1024 x 768/88 Hz 1280 x 1024/66 Hz | 800 x 600/120 Hz 1024 x 768/120 Hz 1280 x 1024/91 Hz 1600 x 1200/78 Hz |
| | Optimal ergonomic resolution | 1024 x 768 @ 88 Hz | 1280 x 1024 @ 91 Hz |
| SPECIAL FEATURES | BLC (automatic Beam Landing Correction) | - | - |
| | ASC | - | - |
| | USB hub | 1 up/4 down | 1 up/4 down |
| PHYSICAL FEATURES | Monitor dimensions (W x H x D) | 460 x 378 x 441 mm | 497 x 458 x 469 mm |
| | Input connector type | D-sub 15 captive cable | D-sub 15 captive cable |
| | User control layout/type | DisplayMouse | DisplayMouse |
| | Weight | 19 kg | 26 kg |
| ERGONOMICS | TCO | '92 | '92 |
| | TÜV/Rheinland | - | • |
| | TÜV GS mark | • | • |
| | ISO-9241-3,-8 | - | • |
| | NUTEK | - | • |
| | International Energy Star | - | • |
| | E2000 | - | • |
| WER INSUMPTION | Normal operation | 115 watts | 150 watts |
| | Power Off mode | 0 watts | 0 watts |
| ON-SCREEN DISPLAY FUNCTIONALITY (OSD) | Brightness, contrast, H&V size and centring, pincushion, raster rotation, pin balance, key balance, keystone distortion, colour control and zoom | • | • |
| | H & V convergence | - | • |
| | Top & bottom convergence | - | - |
| | Moiré cancellation | • | • |
| | Manual degauss | • | • |
| | Control lock | - | - |
| | Video input selection | - | - |
| | Corner landing adjustment | - | - |
| | Image restoration | - | - |
| | | | |
| | Number of languages | 7 | 9 |

| E500 |
|--|
| CPD-E500E |
| 21° ■ |
| 0.24 mm |
| |
| DQL, MALS & EFEAL, L-SAGIC |
| 404 x 302 mm |
| 30-109 kHz |
| 48-160 Hz |
| 800 x 600/160 Hz 1024 x 768/138 Hz 1280 x 1024/103 Hz 1600 x 1200/88 Hz |
| 1280 x 1024 @ 103 Hz |
| - |
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| 407 400 470 |
| 497 x 480 x 478 mm |
| D-sub 15 connector |
| DisplayMouse |
| 32 kg |
| [,] 99 |
| • |
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| 145 watts |
| 0 watts |
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| LOD DIODLANC | | 1.150 | | | 1.101.1 |
|--|---|--|--|---|---|
| LCD DISPLAYS | | N50 SDM-N50 | N50PS SDM-N50PS | M51 SDM-M51 | L181A CPD-L181A |
| TFT PANEL SPEC Panel size | | 3DIVI-IN3U | 15° | 15.1" | 18.1° |
| TITTANLE SI EC | Panel aspect ratio | 4 by 3 | 4 by 3 | 4 by 3 | 5 by 4 |
| | CRT equivalent | 4 by 3 | 17" | 4 by 3 | 19° |
| | Visual area (H & V) | 304 x 228 mm | 304 x 228 mm | 307 x 230 mm | 359 x 287 mm |
| | | TFT LCD | TFT LCD | TFT LCD | TFT LCD |
| | Display type | | | | |
| | Pixel pitch | 0.297 mm | 0.297 mm | 0.30 mm | 0.2805 mm |
| | Resolution | 1024 x 768 | 1024 x 768 | 1024 x 768 | 1280 x 1024 200 cd/m² |
| | Luminance | 200 cd/m² | 200 cd/m² | 200 cd/m² | |
| | Contrast ratio | 300:1 | 300:1 | 300:1 | 300:1 |
| | Supported colours | 16.19 million | 16.19 million | 16.19 million | 16.77 million |
| | Colour controls (OSD) | 9300/6500/5000 User mode: RGB Gain | 9300/6500/5000 User mode: RGB Gain | 9300/6500/5000 User mode: RGB Gain + Gamma colour | 9300/6500/5000 User mode: RGB Gain |
| | Viewing angle (H:V) | H:140°, V:120° | H:140°, V:120° | H:140°, V:120° | H:160°, V:160° |
| | Tilt/swivel | 0° ~+90°/- | 20° ~+40°/- | 0° ~+70°/- | 0° ~+30°/±45° |
| DISPLAY FEATURES | Horizontal frequency | 30-61 kHz | 30-61 kHz | 28-64 kHz | 30-92 kHz |
| | Vertical frequency | 48-85 Hz | 48-85 Hz | 45-75 Hz | 48-85 Hz |
| | Optimal ergonomic resolution | 1024 x 768 @ 75 Hz | 1024 x 768 @ 75 Hz | 1024 x 768 @ 75 Hz | 1280 x 1024 @ 85 Hz |
| | Digital smoothing modes | 1 (advanced) | 1 (advanced) | 1 (advanced) | 3 |
| PHYSICAL FEATURES | Video signal type | RGB analog, Sync on Green | RGB analog, Sync on Green | RGB analog, Sync on Green | RGB analog, Sync on Green |
| | Video input | 2 x D-sub 15 connector | 2 x D-sub 15 connector | D-sub 15 connector | 2 x D-sub 15 connector |
| | Power input | AC direct to media engine | AC direct to media engine | DC | DC |
| | Dimensions (W x H x D) | 356 x 346 x 185 mm (monitor) 45 x 180 x 180 mm (media engine) | 356 x 280 x 26 mm (monitor) 356 x 225 x 203 mm (with stand) 45 x 180 x 180 mm (media engine) | 387 x 296 x 48 mm (monitor) 387 x 345 x 180 mm (with stand) | 468 x 355 x 95 mm (monitor) 468 x 422 x 208 mm (with stand) |
| | Weight | 3 kg (monitor)/ 0.75 kg (media engine) | 1.4 kg (monitor)/ 0.85 kg (media engine) | 4.6 kg | 9 kg |
| | Wall/Arm mount type | - | Direct | VESA | VESA |
| | Virtual Sound system | | - | - | - |
| ERGONOMICS | TCO | '95 | '95 | '99 | '99 |
| | TÜV/Rheinland Ergonomie | | | • | • |
| | TÜV GS mark | | | | • |
| | ISO-9241-3,-8 | • | | • | • |
| | NUTEK | • | | • | • |
| | International Energy Star | | • | • | • |
| POWER | Normal operation | Less than 35 watts | Less than 28 watts | Less than 18 watts | Less than 75 watts |
| CONSUMPTION | User sensor | Less than 8 watts | - | - | - |
| | Suspend/Standby/ | Less than 3 watts | Less than 3 watts | Less than 2 watts | Less than 5 watts |
| | Active Off | | | | |
| | Power Off mode | 0 watts | 0 watts | Less than 2 watts | Less than 5 watts |
| ON-SCREEN DISPLAY FUNCTIONALITY (OSD) | Brightness, contrast, phase, pitch and H&V positioning, colour control, OSD positioning, control lock and reset | • | • | • | • |
| | Backlight control | | • | • | |
| | Zoom (expand) | | • | - | |
| | User sensor | | - | - | - |
| | Light sensor | | - | - | - |
| | Auto-adjust | Automatic | Automatic | Automatic | Manual |
| | Power saving | On/Off | On/Off | On/Off | 4 Options |
| | Wide stereo/Bass boost | ■/■ | -/■ | -/- | -/- |
| | Volume: speakers/headphones | ■/■ | - / ■ | ■/■ | -/- |
| | OSD languages | - / - | 6 | 6 | 6 |
| SUPPLIED ACCESSORIES | In addition to AC power cord and manual | Media engine and stand, G3/G4 Mac adaptor, HD15-HD15 video cable, stereo mini-jack audio cable, Sony digital video cable, Mac utility disk, monitor INF disks (Windows, Mac) | Media engine and stand, G3/G4 Mac adaptor, HD15-HD15 video cable, stereo mini-jack audio cable, Sony digital video cable, Mac utility disk, monitor INF disks (Windows, Mac), display stand, Pivot Software | G3/G4 Mac adaptor, HD15-HD15 video cable, stereo mini- jack audio cable, monitor INF disks (Windows, Mac), Mac utility disk, AC adaptor | G3/G4 Mac adaptor, HD15-HD15 video cable, monitor INF disks (Windows, Mac), Mac utility disk, AC adaptor |

Glossary

What does all the technical jargon mean? It is not possible to describe every technical term in this brief overview, but here are some of the most commonly used terms, and what they mean in plain English.

Aperture Grille Pitch

is the size of the monitor mask opening which allows light through to make up the picture you see. Smaller openings enable greater detail to be seen, so most Sony monitors have an AG pitch of just 0.25 mm or less, producing sharp pictures, rich in detail. Other manufacturers using different mask technology use the term dot pitch, as their masks have dot openings as opposed to Trinitron's stripes.

Hi-Con™ and AR Screen Coatings

reduce reflections, glare and electro-magnetic emissions to make Sony monitors safe and easy to look at.

All models have AR (anti-reflective and antistatic) coatings and feature the new Hi-Con black layer, which reduces light refraction off the surface of the tube and improves contrast considerably.

Flat Screens

minimise picture distortion and unwanted reflections. All FD Trinitron displays are vertically flat and have a minimal horizontal curvature, thus achieving complete visual flatness.

Dynamic focus

The length and shape of light beams vary depending on whether they reach the mask at the centre or corner of the screen. Three lens systems adjust this to provide improved image quality: DQL (Dynamic Quadrupole Lens) delivers a small spot size in the corners of the screen; MALS (Multi-Astigmatism Lens System) provides a small spot size and better spot shape in the corners; MALS and EFEAL (Extended Field Elliptical Aperture Lens) ensure precisely focused pictures over the entire screen.

Beam Landing Correction

provides a uniform and sharp picture, using sensors and a landing correction coil to adjust the direction of the electron beams.

SAGIC/L-SAGIC™

(Small Aperture G1 with Impregnated Cathode) is the remarkably fine electron gun with increased beam density for improved focus at the heart of FD Trinitron. L-SAGIC is a new low power consumption version of SAGIC technology.

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automatically sizes and centres the screen image. If the video signal input is not of a standard VESA timing, the user can press the ASC button and the monitor will automatically size and centre the image. Set-up time is thus reduced to seconds, regardless of the signal timing utilised.

Digital Smoothing

every LCD runs best at one specific resolution. Using other resolutions can result in rough edges or characters ('step' effect) on screen. To avoid this, Sony LCD models come with the Digital Smoothing function, which gives you natural and smooth characters, no matter which resolution you are using.

sRGB

a colour standard management system to ensure standardised colour uniformity between the display and other sRGB-equipped products, such as PCs, digital cameras, printers and Internet Websites.

Virtual Sound System

'Stereo Dipole' circuitry gives unparalleled sound quality – using two closely positioned speakers, the listener is not conscious of their actual position, but senses a virtual sound source from a much wider angle.

Environmental Specifications

safety, ergonomic and environmental considerations are covered by a number of international specifications. Sony monitors variously comply with MPRII, TÜV Rheinland Ergonomie, ISO-9241-3, -8, TCO'92, TCO'95 or TCO'99.

Display Mouse

This unique Sony feature allows you to control your monitor settings easily and quickly with a single click.

Refresh Rates

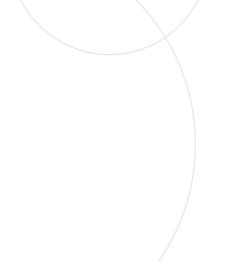
are the speed at which the screen is 'refreshed' with a new image, many times a second. Low refresh rates result in picture 'flicker' which can be tiring on the eyes or cause headaches. Refresh rates of at least 75 Hz (75 times per second) are advisable to give a flicker-free picture.

Resolution

is the number of pixels (a dot on the screen) which make up the picture. This is expressed as horizontal dots x vertical dots (e.g. 640 x 480). The higher the resolution, the more of a screen image is visible, which reduces scrolling, as well as reducing the size of application elements such as menu bars or palettes

For more advice

on what to look for in a monitor and how to interpret the technical jargon, take a look at the CSF "Monitors Matter" Guide, which is available on the internet at www.csf.org.uk









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